Colin O'Brien Assignment 1

- Question one
 - Using Ruby to print "hello world"
 - Puts "Hello World"
 - o First thing that stands out is you do not need to say print anywhere! I assumed this would be the case in virtually every programing language out there. It is also extremely short and simple, similar to the 3rd language that was on the PDF form class. The desired output was in quotes ("") as well, which seems to be in line with the examples we saw in the lecture. There was only one line being used and no indents.
 - o I love the simplicity. Coming from a limited coding background, something being simple in terms of the syntax is an important quality for me. I would be worried about not seeing the term "print" anywhere. That makes me wonder if the language has a lot of different syntax that other languages, making it harder to pick up in the beginning. For a simple task like printing "hello world" it makes sense to not have an indent or anything fancy but I like how those can be helpful for keeping a script organized and would hope they are part of the language.
- Question 2
 - Advantages of C
 - The biggest advantage of C is that it is very fast compared to most other languages. C compilers can processes around 1,000 lines of code in a second. This is something that would be very helpful and important for someone who is trying to run complex code that is going to have a ton of calculations within it. C is commonly used for "talking directly to computers". This is why it is often used as a major part of Windows, UNIX, and Linux operating systems. C also allows the programmer to break the program into functions, which makes it easier to find break up the coding and test pieces of it out first.
 - o Advantages of Java
 - Java is one of the most popular programming languages in the world. This means that there is a very large network that users can reach out to for help de-bugging code and finding new resources/tools. Java can also be used across most devices and is free to use. Similar to python, Java can be broken up into functions. Due to the high portability and low maintenance, Java is often used with MATLAB.
 - Advantages of Python
 - Python is considered one of the easiest programing languages to learn since it has a very similar syntax to the English language. Another advantage is that it is often the case that python is where you can accomplish a task using the lease amount of lines of code, making the language much easier to learn and implement. Python is free and open sourced, with a very large online community. Like Java, python is more portable and can be run on different platforms.
- Question 3

[colinobrien@Colins-Air ∼ % python --version Python 2.7.16

- Question 4
 - o Hi all,

My name is Colin O'Brien. I am a valuation analyst at a consulting company where I build financial models to determine a company's overall value, as well as attribute value to various investments and securities. I am taking this course as part of the prerequisites for masters programs in analytics/data science. I am looking forwarding to getting a better understanding of not just python but of general programming languages. I have taken several UC San Diego extension courses and enjoyed them so far so hopefully that continues! Excited to virtually learn alongside the rest of you.

Thanks,